

Message Text

SECRET

PAGE 01 GENEVA 02992 01 OF 02 241910Z
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S E C R E T SECTION 01 OF 02 GENEVA 02992

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PASS TO DOE

E.O. 11652: XGDS-3
TAGS: PARM US UK UR
SUBJECT: CTB NEGOTIATIONS: ISI SUBGROUP MEETING, FEB 24,
US ILLUSTRATIVE LANGUAGE ON ISI SITE SELECTION, INSTALLA-
TION AND MAINTENANCE

CTB MESSAGE NO.151

FOLLOWING IS ILLUSTRATIVE LANGUAGE PRESENTED BY US DEL
AT SUBJECT MEETING. BEGIN TEXT:

SUGGESTED LANGUAGE OF THE SEPARATE VERIFICATION
AGREEMENT PERTAINING TO SITE SELECTION,
INSTALLATION, OPERATION, MAINTENANCE, AND
REPAIR OF INTERNAL SEISMIC INSTALLATIONS

5. THE PRECISE SITE OF EACH SEISMIC INSTALLATION SHALL
BE DETERMINED PURSUANT TO THE PROCEDURES SPECIFIED IN
THIS PARAGRAPH. THE SITE SELECTION AREA SHALL CONSIST
OF AN AREA WHICH HAS A RADIUS OF 60 KILOMETERS, OR, IN
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SECRET

PAGE 02 GENEVA 02992 01 OF 02 241910Z

THE CASE OF AN ARRAY, 80 KILOMETERS, FROM THE COORDINATES
LISTED IN THE ANNEX, BUT FROM WHICH THE PARTY THAT WILL
OPERATE THE INSTALLATION (THE RECORDING PARTY) MAY EXCLUDE
ANY SPECIFIC SITES THAT ARE NOT ELIGIBLE FOR ITS LOCATION.
THE PARTIES MAY AGREE ON A SITE SELECTION AREA OF
DIFFERENT SHAPE BUT APPROXIMATELY EQUIVALENT AREA. THE
RECORDING PARTY SHALL PROVIDE THE OTHER PARTY (THE

COOPERATING PARTY) WITH THE BEST AVAILABLE GEOLOGIC, TOPOGRAPHIC AND ROAD MAPS OF THE SITE SELECTION AREA AND THE PARTIES SHALL CONSULT TO IDENTIFY SEVERAL SITES WITHIN THE SITE SELECTION AREA THAT MIGHT BE SUITABLE FOR THE LOCATION OF THE INSTALLATION. THE RECORDING PARTY SHALL THEN CONDUCT A LOCAL SEISMIC NOISE SURVEY IN AT LEAST FOUR OF THOSE SITES, USING AGREED PROCEDURES AND PORTABLE SEISMOGRAPHS OF AGREED SPECIFICATIONS. IN THE CASE OF AN ARRAY, IT SHALL ALSO MAKE A VISUAL SURVEY ON THE GROUND TO DETERMINE APPROPRIATE LOCATIONS, IN THE VICINITIES OF THE SEISMICALLY SURVEYED SITES, FOR EACH REMOTE ARRAY ELEMENT. IT SHALL INVITE FOUR EXPERTS OF THE COOPERATING PARTY TO TAKE PART IN THE SEISMIC AND VISUAL SURVEYS. THE PARTIES SHALL CONSULT ABOUT THE GEOLOGICAL AND SEISMIC CHARACTERISTICS OF THE SITES THAT HAVE BEEN SURVEYED. THEY SHALL AGREE TO LOCATE THE INSTALLATION, AND, IN THE CASE OF AN ARRAY, EACH REMOTE ARRAY ELEMENT, AT THE TECHNICALLY MOST APPROPRIATE OF THE SITES THAT HAVE BEEN SURVEYED. THE RECORDING PARTY SHALL NOTIFY THE COOPERATING PARTY OF THE GEOGRAPHIC COORDINATES, WITHIN ONE HUNDREDTH OF A DEGREE, OF EACH SINGLE STATION AND OF THE CENTER OF EACH ARRAY. IT SHALL ALSO NOTIFY THE COOPERATING PARTY OF THE LOCATION OF EACH REMOTE ARRAY ELEMENT, RELATIVE TO THE CENTER OF THE ARRAY, WITH AN ACCURACY OF PLUS OR MINUS ONE METER. IF THE PARTIES AGREE THAT NONE OF THE SITES THAT HAS BEEN

SECRET

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PAGE 03 GENEVA 02992 01 OF 02 241910Z

SURVEYED IS TECHNICALLY APPROPRIATE FOR THE LOCATION OF A STATION OR REMOTE ARRAY ELEMENT, THEY MAY AGREE TO SURVEY ADDITIONAL SITES AND TO SELECT ONE OF THEM. IF THE PARTIES AGREE THAT NO SITES IN THE SITE SELECTION AREA ARE TECHNICALLY APPROPRIATE, THEY MAY AGREE ON A SUBSTITUTE SITE SELECTION AREA.

6. EACH PARTY SHALL INSTALL ITS SEISMIC INSTALLATIONS PURSUANT TO THE PROCEDURES SPECIFIED IN THIS PARAGRAPH. TECHNICAL SPECIALISTS OF THE PARTIES SHALL JOINTLY STUDY THE METHODS BY WHICH THE EQUIPMENT CAN BEST BE INSTALLED, BY PARTICIPATING IN ONE JOINT TEST INSTALLATION AT AN AGREED LOCATION IN THE TERRITORY OF ONE OF THE PARTIES. AFTER THE TEST INSTALLATION HAS BEEN COMPLETED, AND AS THE EQUIPMENT FOR THE INSTALLATIONS IS MANUFACTURED AND BECOMES AVAILABLE TO THE PARTIES, EACH PARTY SHALL PREPARE EACH OF ITS SITES BY DRILLING SUITABLE BOREHOLES AND ASSEMBLING AND CONNECTING THE UNITS. THE RECORDING PARTY SHALL INVITE FIVE REPRESENTATIVES OF THE COOPERATING PARTY TO OBSERVE THE PREPARATION OF THE BOREHOLE AND PARTICIPATE IN THE FINAL STAGES OF ASSEMBLY. THE REPRESENTATIVES OF THE COOPERATING PARTY SHALL BRING WITH THEM THREE MODULES

CONTAINING THE KEY WORDS THAT WILL OPERATE ON THE SEISMIC INPUT DATA TO GENERATE AUTHENTICATION WORDS. THE MODULES SHALL BE IDENTICAL EXCEPT FOR THEIR EXTERNAL COLOR AND THEIR KEY WORDS. THESE MODULES SHALL REMAIN IN THE POSSESSION OF THE COOPERATING PARTY UNTIL THE REPRESENTATIVES OF THE RECORDING PARTY SELECTS ONE OF THEM. THE REPRESENTATIVES OF THE COOPERATING PARTY SHALL INSERT THE SELECTED MODULE INTO THE DOWNHOLE UNIT JUST BEFORE IT IS LOWERED INTO THE BOREHOLE, AND SHALL OBSERVE THE

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PAGE 01 GENEVA 02992 02 OF 02 241917Z
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S E C R E T SECTION 02 OF 02 GENEVA 02992

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SEALING OF THE BOREHOLE. IT SHALL THEN GIVE TO THE REPRESENTATIVES OF THE RECORDING PARTY, FOR RETENTION BY THAT PARTY, THE TWO MODULES THAT HAVE NOT BEEN SELECTED. THE REPRESENTATIVES OF BOTH PARTIES SHALL COOPERATE IN CALIBRATING AND TESTING THE INSTALLATION. IF REQUESTED BY THE RECORDING PARTY, THE COOPERATING PARTY SHALL, EVERY TWO MONTHS, SPECIFY THE KEY WORDS THAT HAVE BEEN USED DURING THE PREVIOUS TWO MONTHS, EXCEPT THAT SUCH SPECIFICATION MAY BE DEFERRED IF SEISMIC DATA FROM THE INSTALLATION HAS NOT YET BEEN TRANSMITTED EITHER BY SATELLITE OR BY DELIVERY OF A BACK-UP TAPE RECORDING.

7. EACH PARTY SHALL BE RESPONSIBLE FOR THE OPERATION OF ITS INSTALLATIONS, PROVIDE THEM CONTINUOUSLY WITH POWER, CALIBRATE AND MAINTAIN THEM ON A SCHEDULE AGREED BY THE PARTIES IN THE JOINT CONSULTATIVE COMMISSION, AND SEND THEM APPROPRIATE COMMANDS, OF AGREED TYPES, FOR SUCH

FUNCTIONS AS SWITCHING TO REDUNDANT COMPONENTS IN CASE OF FAILURE, MOVING THE ANTENNA TO FOCUS ON THE SPARE SATELLITE, OR PROVIDING FOR TIME CORRECTION. A PARTY
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PAGE 02 GENEVA 02992 02 OF 02 241917Z

SHALL NOT OPEN ANY SEALED BOREHOLE, EXCEPT THAT THE RECORDING PARTY SHALL OPEN EACH BOREHOLE ANNUALLY, OR WHEN OTHERWISE AGREED BETWEEN THE PARTIES, IN THE PRESENCE OF A REPRESENTATIVE OF THE COOPERATING PARTY, AND SHALL REMOVE THE KEY WORD MODULE, WHICH IT MAY RETAIN. AT THAT TIME, THE REPRESENTATIVE OF THE COOPERATING PARTY SHALL SUPPLY THREE NEW MODULES, SO THAT THE ONE THAT HAS BEEN REMOVED MAY BE REPLACED PURSUANT TO THE SAME PROCEDURE BY WHICH IT WAS ORIGINALLY INSTALLED.

8. EACH PARTY SHALL PROMPTLY PERFORM ANY NECESSARY REPAIRS ON THE UNSEALED COMPONENTS OF ITS INSTALLATIONS. IT MAY INVITE THE OTHER PARTY TO SEND TECHNICAL SPECIALISTS TO COOPERATE IN SUCH REPAIRS. IF THE SEALED, DOWNHOLE COMPONENTS REQUIRE REPAIR, SUCH REPAIRS SHALL BE CARRIED OUT JOINTLY BY TECHNICAL SPECIALISTS OF BOTH PARTIES. DURING ANY REPAIRS, BACK-UP COMPONENTS SHALL BE SUBSTITUTED FOR THE COMPONENTS BEING REPAIRED, IN ORDER TO MINIMIZE INTERRUPTIONS IN THE TRANSMISSION OF DATA.

9. IF TRANSMISSION FROM A SEISMIC INSTALLATION IS INTERRUPTED OR IMPAIRED FOR A PERIOD OF TIME EXCEEDING THE CAPACITY OF ITS DIGITAL DELAY LINE, THE RECORDING PARTY SHALL PROMPTLY REPAIR THE INSTALLATION. IT SHALL ALSO, NO LATER THAN FIVE DAYS BEFORE THE CAPACITY OF THE ON-LINE STORAGE WOULD BE EXCEEDED, OBTAIN FROM THE INSTALLATION THE BACK-UP TAPE RECORDING OF THE DATA THAT WAS NOT TRANSMITTED, MADE BY THE BACK-UP TAPE RECORDER CONTAINED THEREIN, RESET OR REPLACE THE BACK-UP RECORDER, AND DELIVER A COPY OF THE RECORDING TO THE DIPLOMATIC MISSION OF THE COOPERATING PARTY. THE TAPE SHALL BE HANDLED BY THE RECORDING PARTY CONSISTENT WITH ITS
SECRET

SECRET

PAGE 03 GENEVA 02992 02 OF 02 241917Z

IMPORTANT ROLE IN ENSURING CONFIDENCE IN COMPLIANCE.

10. WHENEVER REPLACEMENT OF AN AUTHENTICATION MODULE IS REQUIRED, THE PARTIES SHALL JOINTLY UNSEAL THE BOREHOLE, INSPECT THE DOWNHOLE EQUIPMENT AND MAKE ANY NECESSARY REPLACEMENTS OR REPAIRS. WHEN APPROPRIATE,

THE PARTIES MAY AGREE TO REPLACE EQUIPMENT IN THE
INSTALLATIONS WITH MORE ADVANCED EQUIPMENT OF AGREED
DESIGN THAT WOULD PERFORM SIMILAR FUNCTIONS. THE PARTIES
MAY ALSO AGREE TO CHANGE THE LOCATION OF AN INSTALLATION.

11. WHENEVER PERSONNEL OF A COOPERATING PARTY TAKE PART
IN SITE SELECTION, INSTALLATION, MAINTENANCE, REPAIR OR
REPLACEMENT OF SEISMIC INSTALLATIONS, THE RECORDING PARTY
SHALL ASSURE SUCH PERSONNEL COMMUNICATION WITH THEIR
AUTHORITIES AND SHALL PROVIDE THEM WITH TRANSPORTATION
AND OTHER SERVICES, AS APPROPRIATE TO THEIR FUNCTION.
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